

MIDLAND®



***Weather/Hazard Alert Monitor
with SAME and FM Radio***

Model 74-210

OWNER'S MANUAL

Please read before using this equipment

Table of Contents

Features:	1
Installing the Back-up Batteries:	2
Connecting AC Power:	3
Connecting an External Antenna:	3
Connecting the Weather Radio to an External System:	3
Location of the Weather Radio:	4
Operation:	4
Continuous Backlight	4
Connecting to Head Phone or Amplifier	4
Reviewing the Overlapping Alert Messages:	5
Controls	5
PROGRAM key	5
ENTER key	5
ARROW key	5
STOP key	5
LAMP key	6
RADIO key	6
SEARCH knob	6
FM/WR Switch	6
Volume control	6
LCD Display	7
LED indicators.	7
PROGRAMMING	7
List of the menu & submenu	8
Selecting the Channel	9

Selecting "WEATHER ALERT ON" or "WEATHER ALERT OFF"	10
Program Weather Alert	10
Automatic voice broadcast.....	11
Setting Siren Level.....	12
Setting the Clock:.....	12
Setting the FIPS code:.....	13
Single or Multiple COUNTY code	16
Using the Weather Radio's All County code	16
Disable Warning Code Alert	17
Adding New SAME Event Codes.....	18
Receive SAME Event Code	20
NWS Weather Alert Descriptions	22
FM Band Radio	25
TROUBLESHOOTING:	27
Specification:.....	29
SERVICE:	31
ONE YEAR LIMITED WARRANTY	33
Wall Mount Installation	35
NOTICE	36

Features:

Alert Function:

Allows you set the Weather Radio to sound an alert when it receives a weather emergency broadcast from NOAA. Users are required to enter the County Code(s) into the Weather Radio in order to be able to receive these alert signals.

SAME Operation:

Allows you program up to 20 County Codes into the Weather Radio's memory. Each County code identifies a specific geographic area (defined by the NWS) such that your Weather Radio will sound an alert when the weather emergency is declared in your specific area.

3-lines Liquid Crystal Display:

Clearly displays weather alert message and emergency duration. The display also shows real time clock and your selected FM radio station.

Alert Indicators:

LED indicator shows you the degree of emergency alert received. Red is for a "WARNING", Yellow is for a "WATCH", and Green is for a "STATEMENT".

7 Weather-Channels:

Allows you select a channel for your local NOAA weather broadcasts.

Display Backlight:

Makes the display easy to read in low light environments. You can set the light to turn on continuously by pressing the LAMP key. Press the LAMP key again will turn off the backlight.

Real time clock:

Four digits and AM / PM icons displays real time.

FM Band Radio:

Allows you to listen to the FM radio in 87.5-108MHz band. When you tune to the FM station and at this time weather emergency message is sent from NOAA station, the Weather Radio will sound an alert and stop the FM radio until you press the "STOP" key. The weather message and the emergency duration are shown on the LCD.

Siren Volume Control:

Allows you set the alert sound level to make sure you hear it.

External Alarm Jack and Audio Out Jack:

Allows you connect an external audio power amplifier or other controlled systems to the Weather Radio. This is useful for ensuring you can hear or see the alert in a location that might be some distance from where you installed the Weather Radio.

External Antenna Jack:

Allows you connect an external antenna to your Weather Radio to have better signal reception. (Inside a vehicle, for example)

Power Requirements:

Connecting Power: Your Weather Radio uses an AC/DC adapter for indoor use. For back-up power (when AC power fails or is temporarily disconnected), your Weather Radio requires four 1.5 volt AA size batteries. For the best performance and longest life, it is recommended that alkaline batteries be used. Rechargeable type batteries are not recommended. This unit does not have charging capabilities.

Installing the Back-up Batteries:**Cautions:**

- Use only four 1.5 Volt 'AA' size alkaline batteries.
- **DO NOT** use rechargeable batteries.

- 1) Press in the tab on the battery compartment cover and lift the cover up to remove it.
- 2) Insert the batteries as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
- 3) Replace the battery compartment door.

Note:

When the back-up batteries are low in power or no battery installed, the battery low icon  will be displayed.

Connecting AC Power:

Connect the AC/DC adapter DC output to the Weather Radio's DC jack.
Plug the AC/DC adapter into a standard 115V AC outlet.

Connecting an External Antenna:

You can connect an external antenna to the **EXT. ANT** Jack on the back of the Weather Radio to improve your Weather Radio reception. This jack uses an RCA type connector. The Midland model 18-259W antenna can be mounted on a window glass near the radio to provide an outside antenna for your radio without any holes for antenna cable. The two parts of the antenna attach to the inside and outside of the window glass with double sided tape. Other VHF vertical antennas may also be used to improve reception.

Connecting the Weather Radio to an External System:

When your weather radio is set to 'WEATHER ALERT ON' and the Weather Radio receives a NWS weather emergency alert broadcast, the Weather Radio sends 6V DC (the voltage will be less when used on the back up batteries.) when connected to the ALARM OUT jack on the back of the radio.

You may need to turn on or off another device when an alert is received. The 74-210 provides a voltage to signal other devices at the ALARM OUT jack when the radio receives an alert. The output is compatible with home automation devices from suppliers like X-10 and others. Connect the positive lead of the interface to the + side of the connector and the negative side of the interface to the – side of the connector. A DC powered device using 12 Volts or less (external power source required) and requiring less than 75mA of current can be switched directly using the EXT. ALERT jack. The internal switch is opened when an alert is received. Pressing the STOP will close the switch.

Location of the Weather Radio:

You can put your Weather Radio on any flat surface (such as a shelf or desk top), or you can mount it on a wall using the supplied wall mounting bracket and two screws (not supplied) with heads that fit the key-hole slots on the wall mounting bracket (Please refer to Wall Mount Installation on page 35). If possible, choose a location that is near a window that is facing the direction the NWS broadcast is coming from. Extend the telescoping antenna as necessary for good reception of the NWS broadcast.

Operation:

Continuous Backlight

Press “LAMP” key once to turn the backlight on continuously and press “LAMP” key again to turn the backlight off.

Connecting to Head Phone or Amplifier

Plug your headphone jack into the AUDIO OUT jack. You can also connect the Weather Radio to your amplifier by using an audio cable, one end connect to the AUDIO OUT of your Weather Radio and one end connect to the audio in of your amplifier

Reviewing the Overlapping Alert Messages:

The Weather Radio can store **10** different alert messages (with overlapping emergency duration) in its memory. When the Weather Radio receives a new alert message while a previous alert is still in effect, it automatically displays the new alert message and sounds an alert for the new alert.

- ☞ If the Weather Radio has not received any type of SAME code for 190 hours, (8 days) the LCD will display “CHECK MANUAL”.

Controls

The Weather Radio function keys:

- ☞ Before programming your new 74-210, please review the controls to make it easier to program.

PROGRAM

PROGRAM key

Used to enter to or exit from the PROGRAM MODE.

ENTER

ENTER key

Used to Confirm the selection you make in the PROGRAM MODE.



ARROW key

Used to move the cursor to next position in PROGRAM MODE; or display real time clock when receiving weather emergency messages.

STOP

STOP key

Used to turn off the alert when receiving SAME event code; or exit to previous menu in PROGRAM MODE



LAMP

LAMP key
Used to turn on / off the backlight.



RADIO

RADIO key
Used to turn the radio on / off .

Search

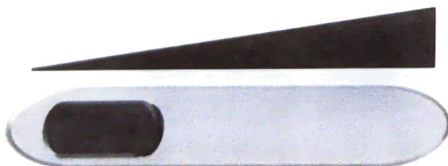


SEARCH knob
to scroll up / down the menu when in PROGRAM MODE;
Tune the FM station when listening to FM band radio.



FM
WR

FM/WR Switch
for selecting the FM band or the Weather Radio Band.



Volume control.
Located on side of radio.

LCD Display

The LCD displays the SAME message and weather alert duration when receiving a SAME code. It displays the PROGRAM setting when reviewing in the PROGRAM MODE.

LCD Display :	Description :
WEATHER ALERT ON	The radio will alert when receiving SAME event code.
WEATHER ALERT OFF	The radio will <i>NOT</i> alert but display the weather message on the LCD when receiving SAME event code.
PM 12:00	The real time clock.
7CH	The channel number of NOAA weather radio.
108.0MHz	The frequency of the FM radio.
	Low battery indication of the back-up battery
NO COUNTY CODE	Indicates there is no county code (FIPS code) set into the Weather Radio. Users MUST set NOAA assigned county code(s) by entering the PROGRAM MODE / 6 DIGIT COUNTY.

LED indicators.

The LED indicators show the type of the SAME message, e.g. green, for 'Statement' message; yellow, for 'Watch' message; Red for 'Warning' message

PROGRAMMING

A program mode is offered to allow you to set the Weather Radio to respond to

the weather alert and other necessary functions. These settings and functions are arranged in menus and submenus.

 **FM/WR switch must be in WR position to program the Weather Radio.**

List of the menu & submenu

WEATHER ALERT √; the “ √ “ = ON;
WEATHER ALERT X the “ X “ = OFF

LISTEN TO INFO √ the “ √ “ = YES;
LISTEN TO INFO X the “ X “ = NO

SIREN LOW
SIREN HIGH

CHANNEL
Input the channel number

CLOCK SETTING
 Setting minutes
 Setting hours
DIGITS COUNTYCODE
 entry number

COUNTY CODE
 entry
MULTIPLE COUNTY CODE
SINGLE COUNTY CODE

DISABLE WARNING
 Select the code.

ADD NEW MESSAGE

Select the new MESSAGE number

Input the event code (PIL) code

input the display message

Input the severance status (watch, warning or statment)

Selecting the Channel

Below is a list of the 7 channels and the corresponding frequencies for the NOAA weather broadcast.

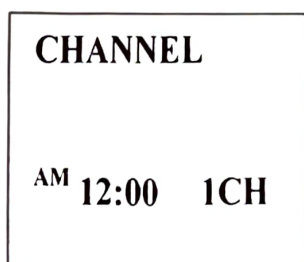
CHANNEL :	1	2	3	4	5	6	7
Frequency (MHz)	162.400	162.425	162.450	162.475	162.500	162.525	162.550

Set the FM/WR switch to WR position and press the “RADIO” key to turn on the Weather Radio. The channel number is displayed on the LCD. Select the local weather channel following these steps.

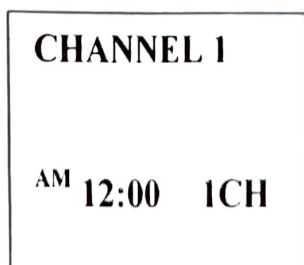
To set the channel:

1. Press the “Program” key to enter the program mode. Rotate the “SEARCH” knob until you see “CHANNEL” on the LCD.

 The illustrations shown below are for the radio on.



2. Press the “ENTER” key. The channel number will be displayed next to the word channel.



ADD NEW MESSAGE

Select the new MESSAGE number

Input the event code (PIL) code

input the display message

Input the severance status (watch, warning or statment)

Selecting the Channel

Below is a list of the 7 channels and the corresponding frequencies for the NOAA weather broadcast.

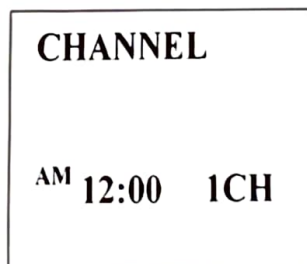
CHANNEL :	1	2	3	4	5	6	7
Frequency (MHz)	162.400	162.425	162.450	162.475	162.500	162.525	162.550

Set the FM/WR switch to WR position and press the “RADIO” key to turn on the Weather Radio. The channel number is displayed on the LCD. Select the local weather channel following these steps.

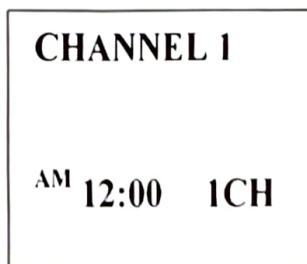
To set the channel:

1. Press the “Program” key to enter the program mode. Rotate the “SEARCH” knob until you see “CHANNEL” on the LCD.

 The illustrations shown below are for the radio on.



2. Press the “ENTER” key. The channel number will be displayed next to the word channel.



3. To select the channel for your local area, rotate the “SEARCH” knob until you see the channel you want to set. Refer to the enclosed booklet for channel number.



You should hear the Weather service broadcast when you have selected the correct channel.

4. Press “ENTER” to store your setting.

**WEATHER
ALERT ON**

AM 12:00 1CH



There is a possibility in some areas you can hear more than one weather station. In this case choose the one with the best sound.

Selecting “WEATHER ALERT ON” or “WEATHER ALERT OFF”

This program allows you to choose how you are alerted when receiving weather alert messages.

- a). “WEATHER ALERT” with the √ will display alert message and generate the siren.
- b). “WEATHER ALERT” with the X will display alert message without siren.



A “√” indicates the siren is on. An “X” indicates the siren is off.

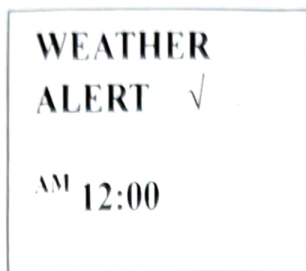


If desired you can press the radio key to turn off the Weather broadcast.

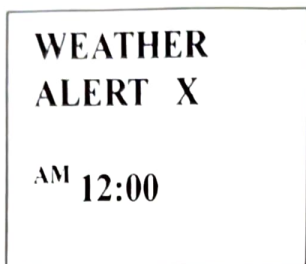
Program Weather Alert

1. Press “Program” key to enter program mode. The LCD displays the current alert status.

2. Press “ENTER” key to toggle WEATHER ALERT OFF or ON.



√ = ON



X = OFF

3. Press the “PROGRAM” key to store your selection.

Automatic voice broadcast

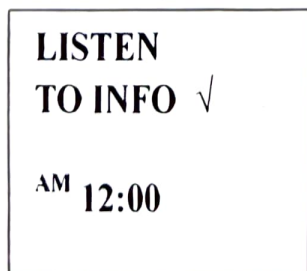
This allows you to program how the NWS broadcast is heard. The Weather Radio can be programmed to either,

- a). Turn on the siren for 8 seconds and then automatically turn on the Weather Radio for 5 minutes to allow you to listen to the voice broadcast about weather condition.
- b). Generate siren until you press the “STOP” key. You must press the radio key to hear the voice broadcast.

To program this function:

1. Press “Program” key to enter program mode. Rotate the “Search” knob until you see on the display “Listen To Info”.

 A “√” indicates the voice is on. An “X” indicates the voice is off.



‘√’ = Yes

2. Press "ENTER" key, to toggle selection.



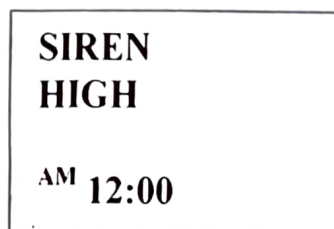
"X" = No

3. Press "PROGRAM" to save setting.

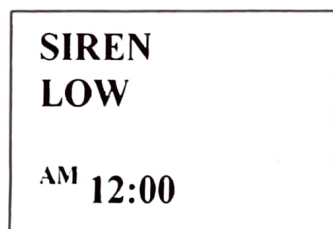
Setting Siren Level

This allows you to adjust the siren level.

1. Press "Program" key to enter program mode. Rotate the "SEARCH" knob until you see "SIREN HIGH" or "SIREN LOW" on the LCD. The display will depend on previous programming.



2. Press "ENTER" key to toggle to "SIREN LOW" or "SIREN HIGH". The siren will sound for 5 seconds each time you press "ENTER" to allow you to hear the level of the siren.



3. Press the "PROGRAM" key to store your setting.

Setting the Clock:

The Weather Radio displays the real time on the LCD. However, when the Weather Radio receives weather emergency message, weather emergency

duration will be displayed. You can review the real time clock by pressing the "ARROW" key.

To set the clock:

1. Press "PROGRAM" key to enter to program mode. Rotate the "SEARCH" knob until you see on the display "CLOCK SETTING"

**CLOCK
SETTING**

AM 12:00

Press the "ENTER" key, the hour digits will flash. Rotate the "SEARCH" knob to change the hour digits to the desired time.

**CLOCK
SETTING**

\ | /
AM 12:10

2. Press the "ARROW" key, the minute digits will flash. Rotate the "SEARCH" knob to change the minute digits to the desired time.

E.g.

**CLOCK
SETTING**

AM 10:10

3. Press "ENTER" key to store your setting.

Setting the FIPS code:

The NWS (National Weather Service) divides the United States by state and county, then assigns a 6-digit FIPS (Federal Information Processing System) code to identify each state and county for the purpose of broadcasting weather conditions.

To obtain the 'FIPS' code (county code) for the location where you installed

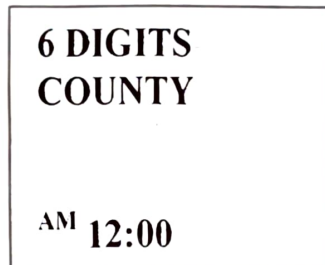
the Weather Radio, call the NWS toll free at **1-888-NWR-SAME (1-888-697-7263)**. The FIPS codes and much more information can be found by way of the Internet at www.nws.noaa.gov/nwr

You can program up to 20 county codes into the Weather Radio's memory. You might want to obtain the codes for other local areas that you travel through to work. You can store those codes into the Weather Radio and receive the weather emergency message covering those locations.

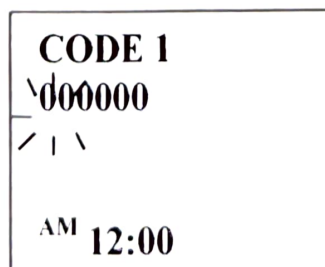
If there is no county code stored in the memory, the LCD will display "**NO COUNTY CODE**" in order to remind you to store county code(s) to the Weather Radio.

To store your county code:

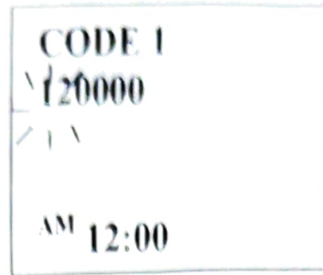
1. Press the "Program" key to enter program mode. Rotate the "SEARCH" knob until you see 6 DIGITS COUNTY on the LCD.



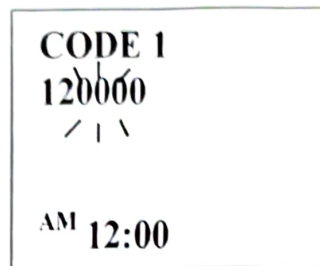
2. Press the "ENTER" key to select this menu. Rotate the "SEARCH" knob to select the county code memory location. (1-20)
3. Press the "ENTER" key to begin selecting your desired county code entry, the first 2 county code digits will flash on the LCD display.



4. Rotate the "SEARCH" knob until you reach the first two desired digit value.



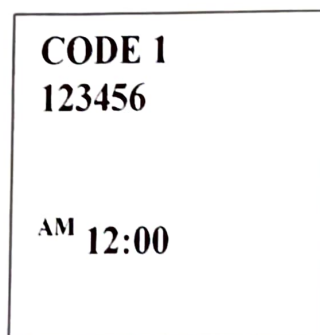
5. Press the "ARROW" key, the next 2 digits will flash.



6. Repeat step 4 & 5 to change the other four digit values.
7. Press the "ENTER" key to store your selection.

 After you press "ENTER" the next memory location will be displayed. You can rotate the "SEARCH" knob to go back to the previous memory location to view your entry or program more county codes as desired.

E.g.



8. When you have finished entering the necessary county codes, press the "Program" key to exit program mode.

Single or Multiple COUNTY code

 Be sure not to skip this step if you entered more than one county.

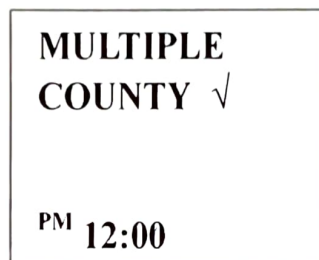
You can program the Weather Radio to respond to the weather alert either by

- a). the county code that you stored in the **first** county code entry (CODE 1)
- or
- b). **all** county codes **you** stored in the memory locations.

To program this function:

1. Press the “Program” key to enter program mode. Rotate the “SEARCH” knob until you see “MULTIPLE COUNTY” on the LCD.

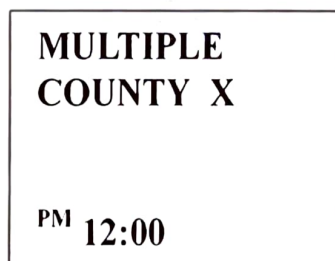
E.g.



√ = Yes

2. Press “ENTER” key to toggle MULTIPLE county on or off.

E.g.



X = No

Using the Weather Radio's All County code

This Weather Radio is preset to use a default “all signals” code of 000099, which allows it to receive all weather emergency broadcasts within a 50-mile radius. This code is unique to your Weather Radio—it is NOT a COUNTY code. This ALL COUNTY CODE overrides all the county codes you may have entered. The Weather Radio will display the weather message and sound the siren unconditionally when receiving weather alert messages.

To set the Weather Radio to use the ALL COUNTY CODE, follow Step 1 through 6 of "COUNTY code Setting ", and enter the ALL COUNTY CODE of 000099 in any county code memory location.

Disable Warning Code Alert

This function is to set the Weather Radio, when receiving some types of weather emergency messages, not to generate siren but display the message on the LCD in order not to annoy you.

To program this function:

1. Press the "Program" key to enter program mode. Rotate the "SEARCH" knob until you see 'DISABLE WARNING' on LCD.

**DISABLE
WARNING**

AM 12:00

2. Press the "ENTER" key to select this menu, then rotate the "SEARCH" knob to select the type of the weather emergency message.

E.g.

**SEVERE
THUNDER X**

AM 12:00

3. Then press "ENTER" to set the Weather Radio not to generate siren when SEVERE THUNDER watch message received. By doing so, the Weather Radio only displays the 'SEVER THUNDER' message on the LCD.

**SEVERE
THUNDER √**

PM 12:00

' √ ' = Yes, defeat siren
' X ' = No, allow siren

4. Press "ENTER" key again, it will toggle back to step 2. Or, Press "STOP" key to exit this function setting.

The following weather emergency messages are included in this function setting.

FLOOD STATEMENT, FLOOD WATCH
HURRICANE STATEMENT, HURRICANE WATCH
TSUNAMI WATCH
AVALANCHE WATCH
VOLCANO WATCH
SEVER THUNDERSTORM WATCH
FLASH FLOOD STATEMENT, FLASH FLOOD WATCH
WINTERSTORM WATCH
HIGH WIND WATCH
COASTAL FLOOD WATCH
CIVIL DANGER WATCH
RADIOLOGICAL HAZARD WATCH
HAZARDOUS MATERIALS WATCH
SEVER WEATHER STATEMENT
SPECIAL WEATHER STATEMENT

Adding New SAME Event Codes

If the NWS finds it necessary to add alert codes in the future, your 74-210 will allow you to add three (3) new SAME message codes. The new SAME message code is divided into three (3) categories. They are:

- a). Event code (PIL code);
- b). Display text message on LCD;
- c). Weather severance status.

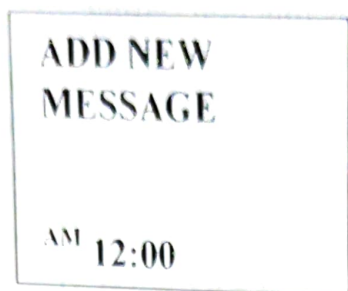
You must enter all of them to make the new SAME message function correctly.

 Remember this is for future needs.

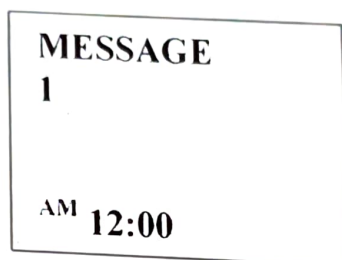
To add the new SAME message code, follow the steps below:

1. Press the "Program" key to enter program mode. Rotate the "SEARCH"

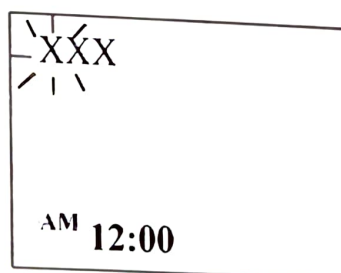
knob until you see ADD NEW MESSAGE on the LCD.



2. Press the "ENTER" key to select this menu. Rotate the "SEARCH" knob to your desired message code entry, e.g. MESSAGE 1; the first entry for the new SAME message code.

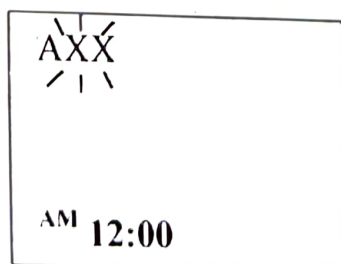


3. Press "ENTER" to select it, then the LCD will display the SAME message code that you stored before. If you never store the new SAME code before, the LCD will display 'XXX'. The first character will flash, and you can change to your desired character by Rotate the "SEARCH" knob.



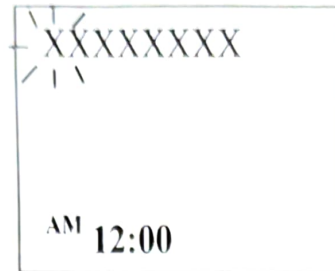
4. Press "ARROW" key to move the cursor to the next character.

E.g.



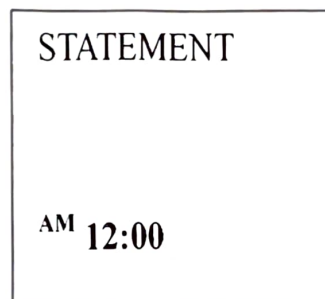
5. Repeat step 3 & 4 to store the character for the desired SAME message. Then, press “ENTER” key to conform. Then, the LCD will display the weather emergency message.

E.g.



6. Repeat step 3 & 4 to store the characters for the weather emergency message. Then press “ENTER” key to confirm.
7. Next you select the severance (weather status) for the new SAME message code, e.g. STATEMENT, WATCH or WARNING.

E.g.



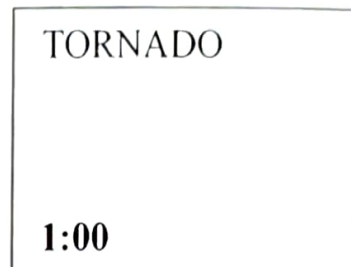
8. Rotate the “SEARCH” knob to select the desired warning severance, press the “ENTER” key to confirm. The new SAME message code is stored and saved into the Weather Radio.
9. Press the “ARROW” key to store another new SAME message code or press the “STOP” key to exit to the main menu.

Receive SAME Event Code

When the Weather Radio receives a SAME message code, it will check and match the stored code. If the received COUNTY code matches one of the stored COUNTY codes. The weather radio will activate the siren to alert you

and display the corresponding weather emergency message and its emergency duration on the LCD. The LED indicator will light to show the severity of the weather condition, Red for Warning, Yellow for WATCH and Green for STATEMENT.

E.g. *Tornado Warning, Duration: 1 hour.*



The message on the LCD will stay for one hour as the above example.

If you have set automatic voice broadcast in the program mode, the siren will last for about 8 seconds. The Weather Radio will turn on the Weather Radio for 5 minutes.

If the Weather Radio is programmed to 'WEATHER ALERT ON' mode, the siren will be generated until you press the "STOP" key. Otherwise, the siren will continue until the weather emergency period has elapsed.

The Weather Radio contains 10 memories for the SAME alert message. If the 10th memory is full and a new SAME message received, the weather radio stores the new alert message and clears the oldest alert message from the memory.

You can rotate the "SEARCH" knob to review the previous weather emergency message in the memory. After viewing the messages the last received alert will be automatically displayed after 8 seconds.

NWS Weather Alert Descriptions

Weather Alert Description	LCD display	LED indicator	Alert tone
Tornado Watch	TORNADO	WATCH	Siren*
Tornado Warning	TORNADO	WARNING	Siren
Severe Thunderstorm Watch	SEVERE THUNDER	WATCH	Siren*
Severe Thunderstorm Warning	SEVERE THUNDER	WARNING	Siren
Flash Flood Statement	FLASH FLOOD	STATEMENT	Siren*
Flash Flood Watch	FLASH FLOOD	WATCH	Siren*
Flash Flood Warning	FLASH FLOOD	WARNING	Siren
Flood Statement	FLOOD	STATEMENT	Siren*
Flood Watch	LOOD	WATCH	Siren*
Flood Warning	FLOOD	WARNING	Siren
Winter Storm Watch	WINTER STORM	WATCH	Siren
Winter Storm Warning	WINTER STORM	WARNING	Siren
Blizzard Warning	BLIZZARD	WARNING	Siren
High Wind Watch	HIGH WIND	WATCH	Siren
High Wind Warning	HIGH WIND	WARNING	Siren
Hurricane Statement	HURRICANE	STATEMENT	Siren*
Hurricane Watch	HURRICANE	WATCH	Siren*
Hurricane Warning	HURRICANE	WARNING	Siren
Tsunami Watch	TSUNAMI	WATCH	Siren*
Tsunami Warning	TSUNAMI	WARNING	Siren

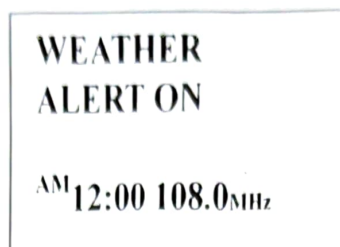
Weather Alert Description	LCD display	LED indicator	Alert tone
Coastal Flood Watch	COASTAL FLOOD	WATCH	Siren*
Coastal Flood Warning	COASTAL FLOOD	WARNING	Siren
Special Marine Warning	SPECIAL MARINE	WARNING	Siren
Avalanche Watch	AVALANCHE	WATCH	Siren*
Avalanche Warning	AVALANCHE	WARNING	Siren
Volcano Watch	VOLCANO	WATCH	Siren*
Volcano Warning	VOLCANO	WARNING	Siren
Immediate Evacuation Warning	IMMEDIATE EVACUATE	WARNING	Siren
Evacuation Immediate	EVACUATE IMMEDIATE	WARNING	Siren
Shelter In Place Warning	SHELTER IN PLACE	WARNING	Siren
Civil Danger Watch	CIVIL DANGER	WATCH	Siren*
Civil Danger Warning	CIVIL DANGER	WARNING	Siren
Civil Emergency Message	TURN TV	WARNING	Siren
Local Area Emergency	LOCAL EMERGENCY	WARNING	Siren
Radiological Hazard Watch	RADIOLOGI HAZARD	WATCH	Siren*
Radiological Hazard Warning	RADIOLOGI HAZARD	WARNING	Siren
Hazardous Materials Watch	HAZARDOUS MATERIAL	WATCH	Siren*

Weather/Alert Description	LCD display	LED indicator	Alert tone
Hazardous Materials Warning	HAZARDOUS MATERIAL	WARNING	Siren
Law Enforcement Warning	LAW ENFORCE	WARNING	Siren
Fire Warning	FIRE	WARNING	Siren
Severe Weather Statement	SEVERE WEATHER	STATEMENT	Siren*
Special Weather Statement	SPECIAL WEATHER	STATEMENT	Siren*
Emergency Action Notification	EMERGENCY ACTION	WARNING	Siren
Emergency Action Termination	EMERGENCY TERMINATE	WARNING	Siren
National Information Center	NATIONAL INFO	WARNING	Siren
National Hazard Warning	NATIONAL HAZARD	WARNING	Siren
National Periodic Test	NATIONAL TEST		
Network Message Notification	TUNE TV	STATEMENT	
Required Monthly Test	MONTHLY TEST		
Required Weekly Test	WEEKLY TEST		
System Demonstration	DEMO		
Unrecognized code ending in S	TUNE TV	STATEMENT	Siren
Unrecognized code ending in W	TUNE TV	WARNING	Siren
Unrecognized code ending in A	TUNE TV	WATCH	Siren
Unrecognized code ending in E	EMERGENCY	TUNE TV	Siren

 * indicates message can be programmed not to alert.

FM Band Radio

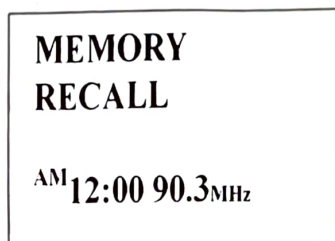
Set the FM/WR switch to the *FM* position and press the 'RADIO' key to turn on the FM radio. The FM station frequency is displayed on the LCD.



To tune the FM station, rotate the "SEARCH" knob to find a station you want to listen to.

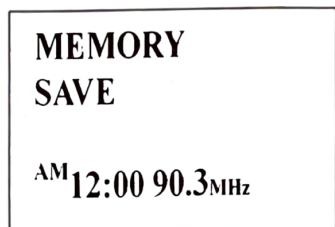
When you have tuned to the desired radio station, you can save it to memory by the following steps:

1. Press the "Program" key, the LCD will display

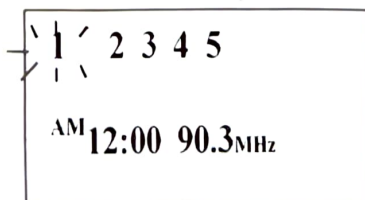


2. Rotate the "SEARCH" knob to see on the display:

E.g.



3. Press the "ENTER" key to see on the display:

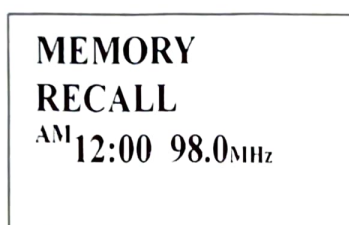


- ⑧ The flashing number indicates the memory location to be programmed. If you desire, press “ENTER” to store the station in this memory.
 - ⑧ If you want to choose a memory location other than the one flashing, you can go to step 4
4. Rotate the “SEARCH” knob to choose a memory location you desire.
 5. Press “ENTER” to store the station in memory.

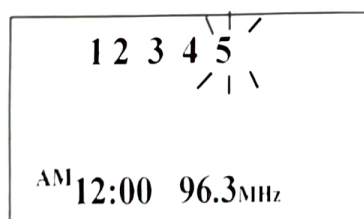
Recall the memory by the following steps

⑧ The FM/WR switch must be in the FM position

1. Press the “Program” key to see ‘RECALL MEMORY’ on the display.



2. Press the “ENTER” key. The LCD will display the memory numbers. Rotate “SEARCH” knob to cause the desired memory number to flash. The LCD will display the radio frequency in that memory.



3. Press the “ENTER” key, the radio will tune to the FM station in that memory displayed on the LCD.
4. Press the “PROGRAM” key to exit program mode.

TROUBLESHOOTING:

Problem	Solutions
No Power	1. May be loose connection, check the connection between the Weather Radio and AC/DC adapter 2. Check the connection between the AC/DC adapter and the wall outlet 3. Check the battery connection
No sound	1. Move the volume slide
No weather broadcast when you press 'RADIO' key	- Make sure your weather radio channel is set to receive your Local NOAA Broadcast Channel; - Make sure the antenna is fully extended; - When the Weather Radio is connected to external antenna, make sure they have good connections.
County codes are stored in the memory, but the unit responds to weather alert broadcasts for the counties not covered by those county codes.	Ensure the '000099' is <u>not</u> stored in any memory
'CHECK MANUAL' displays on the LCD	1.The Weather Radio has not received any type of SAME alert signal or 'test' / 'demo' signals for about 190 hours (one week). Ensure the county code(s) stored in memory is correct. 2.To remove message, remove a battery and unplug power momentarily. Reinstall power and battery.
'NO COUNTY CODE' displays on the LCD	The memory contains no county code (FIPS code). Store the county code(s) to the memory according to the 'program menu 6' in program mode.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.

Specification:

Power Supply : 10 - 12Volt DC, 3.7W
Back-up Battery : 6 Volt (4 "AA" batteries)
Antenna : Telescoping Rod Antenna

For Weather Band Receiver:

Frequency Coverage (MHz):

Channel 1 : 162.400
Channel 2 : 162.425
Channel 3 : 162.450
Channel 4 : 162.475
Channel 5 : 162.500
Channel 6 : 162.525
Channel 7 : 162.550

Receiving sensitivity @12 dB SINAD :	0.28uV
FIPS code sensitivity	
@ +/- 3.0KHz Dev. / 95% Success Rate :	0.28uV
Channel selectivity (+/- 25KHz) :	50dB
Signal to noise ratio :	40dB
-6dB Audio Response :	2KHz
Audio Harmonic Distortion :	3%
Max output power :	250mW

For FM receiver :

Frequency Coverage : 87.5MHz – 108MHz

30dB Quieting Sensitivity

@90MHz, 98MHz and 106MHz :

12dB_uV

Audio Harmonic Distortion @98MHz :

3 %

S/N Ratio @ 98MHz :

40dB

AM Suppression :

40dB

Minimum Volume Noise & Hum :

3mV

Max output power :

250mW

Dimensions (HWD) : 190mm X 135mm X 45mm

(7.5 X 5.25 X 1.75 inches)

Specifications are typical; individual units might vary.

Specifications are subject to change and improvement without notice.

SERVICE:

If it ever becomes necessary to return your 74-210 for service:

If you have a problem which you believe requires service, please call first and speak with a service technician. Many problems can be remedied over the phone without returning the unit for service.

1. Pack the unit in its original box and packing. Pack the original box in a suitable shipping carton along with the following. Improper packing may result in damage during shipment.
2. Include a full description of any problems and a daytime telephone number.
3. For warranty service include a photocopy of the bill of sale or other proof of purchase showing the date of sale.
4. Include a money order for \$7.50 to cover shipping and handling (this may not be required in some states).

You do not need to return accessory items (AC/DC Adapter, Owners Guide) unless they maybe directly related to the problem.

A flat rate of \$45.00 will apply to repairs not covered by warranty or units that are over one year old. Send only cashiers check, money order or Master Card or Visa card number.

Midland Consumer Radio

1670 N. Topping Ave.

Kansas City, Mo. 64120

Tele. 816-241-8500

ONE YEAR LIMITED WARRANTY

Midland Consumer Radio Inc. will repair or replace, at its option without charge, your 74-210 weather alert radio which fails due to a defect in material or workmanship within one year following the initial consumer purchase.

This warranty does not include any antennas, which may be a part of or included with the warranted product, or the cost of labor for removal or re-installation of the product in a vehicle or other mounting.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, along with a copy of the original sales receipt, to Midland Consumer Radio Inc., Warranty Service Department, 1670 North Topping Avenue, Kansas City, Missouri 64120, or to any "Midland Authorized Warranty Service Station," or to the place of purchase (if a participating dealer).

Warranty information and the location of the nearest "Midland Authorized Warranty Service Station," may be obtained by writing Midland Consumer Radio, Warranty Service Department.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

Note: The above warranty applies only to merchandise purchased in the United States of America or any of the territories or possessions thereof, or from a U.S. Military exchange. For warranty coverage on merchandise purchased elsewhere ask your dealer.

Midland Consumer Radio

1670 N. Topping

Kansas City, Mo. 64120

Printed in China

E-mail: midlndcb@midlandradio.com

URL: www.midlandradio.com

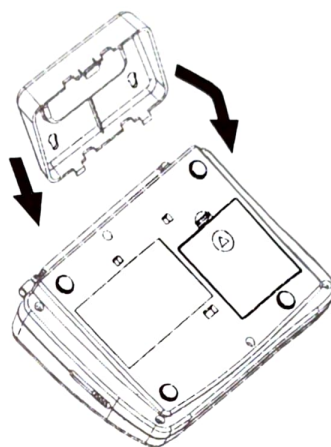
Wall Mount Installation

Follow these steps to mount the Weather Radio on a wall.

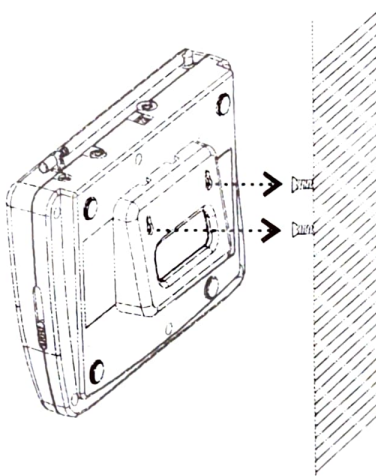
1. Select a mounting location near the AC outlet, then drill two holes 2-3/8 inches apart. Then thread a screw into each mounting hole until the head extends about 1/8 inch from the wall.



2. Insert the tabs on the bracket into the slots on the Weather Radio. Then, press the bracket toward the Weather Radio until it clicks into place.



3. Align the keyhole slots in the mounting bracket with the screws on the wall. Press the Weather Radio toward the wall then down to secure it.



NOTICE

To prevent **unnecessary** alerts the weekly tests **will not** activate the alert siren. The radio will only display “WEEKLY TEST” in the display window. The display will reset after usually 30 minutes. To check if the radio received the weekly test, rotate the search knob counter-clockwise to review the latest alert events.